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District, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM140600324301

Email: ee.shenzhen@sgs.com Page: 1 of 19

1 Cover Page

FCC REPORT

Application No.:SZEM1406003243RFApplicant:IDT Technology LimitedManufacturer:IDT Technology LimitedFactory:IDT Technology Limited

Product Name: 5 Channel Remote Baro-Thermo-Hygro Sensor

Model No.(EUT): BTHGN129

Trade Mark: Oregon scientific FCC ID: NMTBTHGN129-01

Standards: 47 CFR Part 15, Subpart C (2013)

Date of Receipt: 2014-06-24

Date of Test: 2014-06-27 to 2014-07-11

Date of Issue: 2014-07-16

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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2 Test Summary

Test Item	Test Requirement	Test method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C	ANCI Cea 10(2000)	PASS	
Antenna nequirement	Section 15.203	ANSI C63.10(2009)	PASS	
Spurious Emissions	47 CFR Part 15, Subpart C	ANCI C62 10/2000)	PASS	
Spurious Emissions	Section 15.231 (b)/15.209	ANSI C63.10(2009)	FASS	
20dB Bandwidth	47 CFR Part 15, Subpart C	ANCI C62 10/2000)	PASS	
2006 Bandwidth	Section 15.231 (c)	ANSI C63.10(2009)	PASS	
Dwell Time	47 CFR Part 15, Subpart C	ANCI C62 10(2000)	PASS	
	Section 15.231 (a)	ANSI C63.10(2009)	FA35	



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4 General Information

4.1 Client Information

Applicant:	IDT Technology Limited
Address of Applicant:	Block C, 9/F, Kaiser Estate, Phase 1, 41 Man Yue Street, Hunghom, Kowloon, HongKong
Manufacturer:	IDT Technology Limited
Address of Manufacturer:	Block C, 9/F, Kaiser Estate, Phase 1, 41 Man Yue Street, Hunghom, Kowloon, HongKong
Factory:	IDT Technology Limited
Address of Factory:	Chentian Industrial Estate, Xixiang, Bao An, ShenZhen.PRC

4.2 General Description of EUT

Name:	5 Channel Remote Baro-Thermo-Hygro Sensor
Model No.:	BTHGN129
Trade Mark:	Oregon scientific
Sample Type:	Portable production
Operation Frequency:	433.92MHz
Channel Numbers:	1
Modulation Type:	ASK
Antenna Gain:	5dBi
Antenna Type:	Integral
Power Supply:	3.0V DC (1.5V x 2 "AAA" Size Batteries)
Test Voltage:	DC 3.0V new batteries



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4.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

4.4 Description of Support Units

The EUT has been tested independent.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



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4.10 Equipment List

	RE in Chamber								
Item	m Test Equipment Manufacturer Mo		Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)				
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-06-10				
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2015-05-16				
3	EMI Test software	AUDIX	E3	SEL0050	N/A				
4	Coaxial cable	SGS	N/A	SEL0027	2015-05-29				
5	Coaxial cable	SGS	N/A	SEL0189	2015-05-29				
6	Coaxial cable	SGS	N/A	SEL0121	2015-05-29				
7	Coaxial cable	SGS	N/A	SEL0178	2015-05-29				
8	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24				
9	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24				
10	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-16				
11	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24				
12	Barometer	ChangChun	DYM3	SEL0088	2015-05-16				
13	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24				
14	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-24				
15	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24				
16	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-16				
17	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-06-04				

Note: The calibration interval is one year, all the instruments are valid.



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5 Test results and Measurement Data

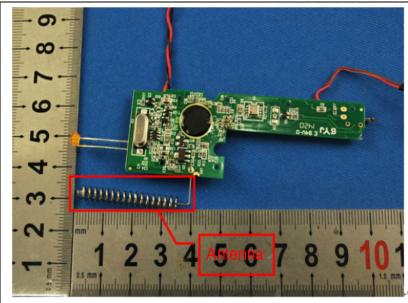
5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:



The antenna is fixed on the main PCB and no consideration of replacement. The best case gain of the antenna is 5dBi.

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5.2 Spurious Emissions

5.2.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.231(e) and 15.209							
Test Method:	ANSI C63.10: 2009							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above 1G112	Peak	1MHz	10Hz	Average			
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi- peak	3			
	88MHz-216MHz	150	43.5	Quasi- peak	3			
	216MHz-960MHz	200	46.0	Quasi- peak	3			
	960MHz-1GHz	500	54.0	Quasi- peak	3			
	Above 1GHz	500	54.0	Average	3			
	Note: 15.35(b), Unless emissions	otherwise specif	ied, the lim	it on peak	radio frequency			
	is 20dB above the maximum permitted average emission limit applicable to the							
	equipment under to	est. This peak limit	applies to the	e total peak e	emission level			
	radiated by the dev	rice.						

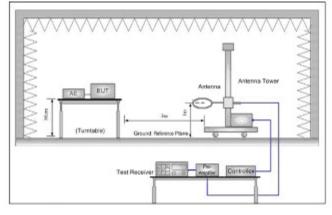
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	1 age. 10 01 13							
Limit:		Frequency	Limit (dBuV/m @3m)	Remark				
(Field strength of	422 02MHz		72.87	Average Value				
the fundamental		433.92MHz	92.87	Peak Value				
signal)								
Test Procedure:	b	The EUT was placed on the toground at a 3 meter semi-and degrees to determine the post the EUT was set 3 meters as which was mounted on the toground to determine the max horizontal and vertical polarizemeasurement. For each suspected emission the antenna was tuned to height below 30MHz, the antenna table was turned from 0 degree the test-receiver system was Bandwidth with Maximum Ho	echoic camber. The table sition of the highest radiation of the highest radiation vay from the interference-p of a variable-height anterform one meter to four medimum value of the field strations of the antenna are the EUT was arranged to ghts from 1 meter to 4 mediates to 360 degrees to find set to Peak Detect Function of the highest to the peak Detect Function of the highest radiation.	was rotated 360 on. receiving antenna, enna tower. eters above the rength. Both set to make the o its worst case and ther ters(for the test frequen eter) and the rotatable the maximum reading.	псу			
	 f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. The radiation measurements are performed in X, Y, Z axis positioning. And four the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report. 				re- d und			
Test Setup:								





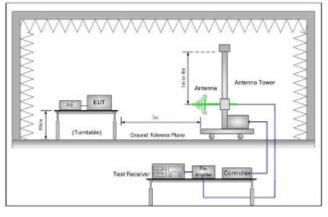


Figure 2. 30MHz to 1GHz

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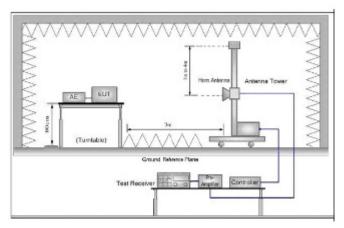


Figure 3. Above 1 GHz

Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

5.2.1.1 Field Strength Of The Fundamental Signal

Peak value:									
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
433.920	2.35	12.1	57.96	72.41	92.87	-20.46	Horizontal		
433.920	2.35	12.1	64.64	79.09	92.87	-13.78	Vertical		

Average value:										
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
433.920	2.35	12.1	48.42	62.87	72.87	-10:00	Horizontal			
433.920	2.35	12.1	54.75	69.20	72.87	-3.67	Vertical			

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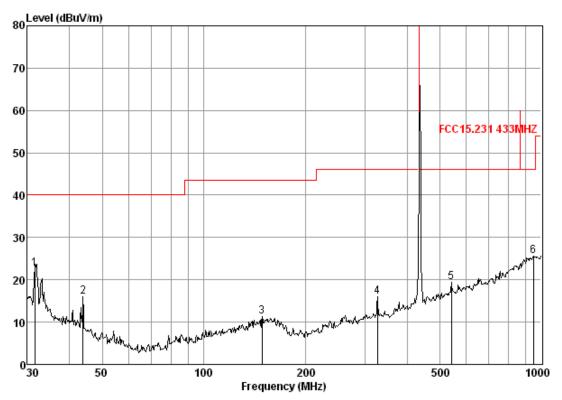
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5.2.1.2 Spurious Emissions

Below 1GHz

Vertical



Condition: FCC15.231 433MHZ 3m 3142C VERTICAL

Job No. : 3243RF Mode : TX

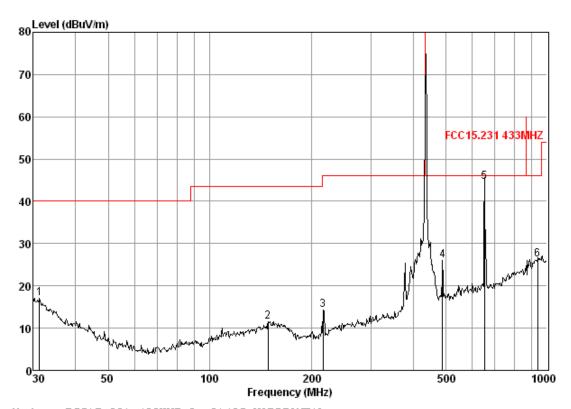
oue	Freq			Preamp Factor	Read Level		Limit Line	Over Limit
_	MHz	dB	dB/m			dBuV/m	dBuV/m	dB
1 2 3 4 5	31.51 43.81 148.96 326.74 541.37 948.76	0.60 0.68 1.32 1.99 2.64	16. 73 10. 33 9. 23 10. 18 14. 72 21. 40	27. 35 27. 31 26. 91 26. 60 27. 63 26. 54	32. 73 32. 30 27. 60 30. 41 29. 73 27. 07	22. 71 16. 00 11. 24 15. 98 19. 46 25. 58	40.00 43.50 46.00 46.00	-17. 29 -24. 00 -32. 26 -30. 02 -26. 54 -20. 42



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Horizontal



Condition: FCC15.231 433MHZ 3m 3142C HORIZONTAL

Job No. : 3243RF Mode : TX

	Freq			Preamp Factor	Read Level		Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	$\overline{\text{dBuV/m}}$	$\overline{\text{dBuV/m}}$	dB
1 2 3 4 5 6	31.29 148.96 216.78 489.03 651.94 935.55	0.60 1.32 1.50 2.56 2.81 3.64	16. 90 9. 23 7. 29 13. 48 15. 80 20. 63	27. 35 26. 91 26. 64 27. 66 27. 47 26. 61	26. 85 27. 88 32. 19 37. 66 53. 42 28. 66	17.00 11.52 14.34 26.04 44.56 26.32	43.50 46.00 46.00 46.00	-23.00 -31.98 -31.66 -19.96 -1.44 -19.68

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Above 1GHz

Р	eal	k	va	lы	Θ.
	-a	ľ	v a	u	ᆫ.

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1301.870	2.38	27.76	39.27	71.95	62.82	74	-11.18	Vertical
1655.354	2.62	29.33	39.42	46.61	39.14	74	-34.86	Vertical
1728.561	2.66	29.83	39.45	66.92	59.96	74	-14.04	Vertical
1875.258	2.75	30.81	39.51	55.99	50.04	74	-23.96	Vertical
2370.107	2.98	32.48	39.84	46.36	41.98	74	-32.02	Vertical
2597.564	3.09	32.84	40.00	61.32	57.25	74	-16.75	Vertical
1296.469	2.38	27.73	39.27	63.38	54.22	74	-19.78	Horizontal
1728.561	2.66	29.83	39.45	54.83	47.87	74	-26.13	Horizontal
2162.567	2.90	32.08	39.68	46.92	42.22	74	-31.78	Horizontal
2597.564	3.09	32.84	40.00	55.80	51.73	74	-22.27	Horizontal
3026.195	3.33	33.39	40.33	54.92	51.31	74	-22.69	Horizontal
3672.110	3.88	33.41	40.80	47.49	43.98	74	-30.02	Horizontal

Average value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1301.870	2.38	27.76	39.27	52.00	42.87	54	-11.13	Vertical
1655.354	2.62	29.33	39.42	28.00	20.53	54	-33.47	Vertical
1728.561	2.66	29.83	39.45	47.23	40.27	54	-13.73	Vertical
1875.258	2.75	30.81	39.51	36.21	30.26	54	-23.74	Vertical
2370.107	2.98	32.48	39.84	27.31	22.93	54	-31.07	Vertical
2597.564	3.09	32.84	40.00	41.52	37.45	54	-16.55	Vertical
1296.469	2.38	27.73	39.27	44.26	35.10	54	-18.90	Horizontal
1728.561	2.66	29.83	39.45	35.62	28.66	54	-25.34	Horizontal
2162.567	2.90	32.08	39.68	27.55	22.85	54	-31.15	Horizontal
2597.564	3.09	32.84	40.00	35.61	31.54	54	-22.46	Horizontal
3026.195	3.33	33.39	40.33	35.29	31.68	54	-22.32	Horizontal
3672.110	3.88	33.41	40.80	28.16	24.65	54	-29.35	Horizontal



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Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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5.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.231 (c)				
Test Method:	ANSI C63.10:2009				
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.				
Test Setup:	dB down from the modulated carrier. Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Mode:	Transmitting mode				
Instruments Used:	Refer to section 4.10 for details				
Test Results:	Pass				

Measurement Data

20dB bandwidth (MHz)	Limit (MHz)	Results		
0.1699	1.0848	Pass		

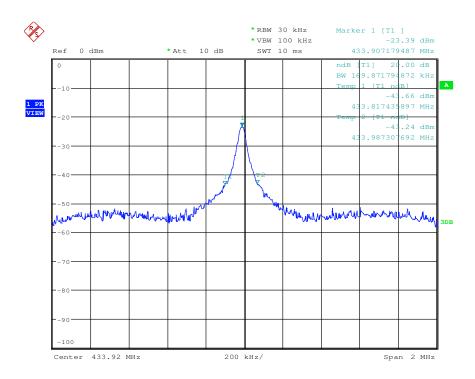
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Test plot as follows:



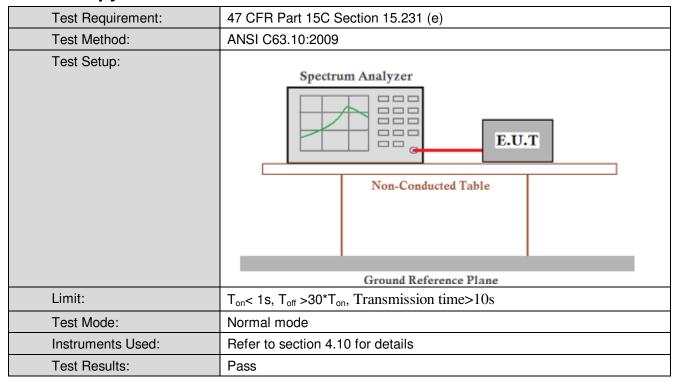




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5.4 Occupy time



Measurement Data

Test item	Limit	Results	
Ton	1s	Pass	
Transmitting time	>10s	Pass	

Remark:

 $T_{on} = 0.218*2 = 0.436s < 1s$

 $T_{off} > 30 \text{*} Ton = 30 \text{*} 0.436 = 13.08 \text{s}$

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Test plot as follows:

